

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 2

PATENT
Filed: July 7, 2003

1. (currently amended) A skylight, comprising:

at least one light conveying structure having an upper end covered by a transparent cover and a lower end covered by a cover;

first and second valve elements pivotable between an open configuration, wherein a light passageway of the skylight is substantially not blocked, and a closed configuration, wherein the light passageway is substantially blocked;

a motor;

a reduction gear train reducing a speed of rotation of the motor to an operating speed of a gear train shaft; and

a cam coupling the shaft to the valve elements to transform one hundred eighty degrees (180°) of rotation of the gear train shaft to ninety degrees (90°) of rotation of the valve elements, the valve elements being separate from each other.

2. (original) The skylight of Claim 1, wherein each valve element turns on a respective axle.

3. (previously presented) The skylight of Claim 1, wherein each valve element defines a diameter and the elements are disposed in a shroud separate from and coaxially engaged with the light conveying structure, and the shroud defines a height less than the diameter.

4. (previously presented) The skylight of Claim 1, wherein the valve elements are disposed in a shroud separate from and coaxially engaged with the light conveying structure, the shroud being formed

1128-17.AM1

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 3

PATENT
Filed: July 7, 2003

with a lip circumscribing an inner surface of the shroud, the valve elements engaging the lip in the closed configuration.

5, 6 (canceled).

7. (currently amended) The skylight of Claim ~~[[5]]~~1, wherein the actuator motor is wirelessly controlled.

8. (currently amended) The skylight of Claim ~~[[5]]~~1, wherein the actuator motor is controlled by a switch electrically connected to the actuator.

9. (currently amended) The skylight of Claim ~~[[5]]~~1, comprising a power supply to power the actuator motor, the power supply operating to supply power at voltages at least in the range from about one hundred volts (100V) to about two hundred seventy volts (270V).

10. (canceled).

11. (currently amended) The skylight of Claim 1~~[[0]]~~, wherein each valve element turns on a respective axle, and each axle rides on the cam.

12. (canceled).

1128-17,AMI

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 4

PATENT
Filed: July 7, 2003

13. (currently amended) A valve assembly for a skylight, comprising:
- a shroud defining a light passageway; and
- a butterfly valve in the shroud and movable between an open configuration, wherein ~~at least portions of at least two elements of the valve extend beyond the shroud and~~ the light passageway is not blocked, and a closed configuration, wherein the elements cooperate to block the light passageway and are completely within the shroud; and
- a power supply to supply power to move the elements, the power supply operating to supply power at a first input voltage[[s]] ~~at least in the range from~~ of about one hundred volts (100V); the power supply also supplying power to move the elements at a second input voltage of [[to]] about two hundred seventy volts (270V).

14. (original) The assembly of Claim 13, wherein the valve includes first and second valve elements pivotable within the shroud between the open configuration and closed configuration.

15. (original) The assembly of Claim 14, wherein each valve element turns on a respective axle.

16. (original) The assembly of Claim 14, wherein the shroud is formed with a lip circumscribing an inner surface of the shroud, the valve elements engaging the lip in the closed configuration.

17. (original) The assembly of Claim 14, comprising an actuator actuating the valve elements.

1128-17.AM1

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 5

PATENT
Filed: July 7, 2003

18. (canceled).

19. (original) The assembly of Claim 14, wherein the actuator includes a motor and the assembly comprises:

a reduction gear train reducing a speed of rotation of the motor to an operating speed of a gear train shaft; and

a cam coupling the shaft to the valve elements to transform one hundred eighty degrees (180°) of rotation of the gear train shaft to ninety degrees (90°) of rotation of the valve elements.

20. (original) The assembly of Claim 19, wherein each valve element turns on a respective axle, and each axle rides on the cam.

21. (original) The assembly of Claim 17, wherein the actuator includes at least one pulley driven by at least one shape memory spring, the pulley being coupled to the valve elements.

22. (currently amended) A skylight, comprising:
light conveying means for conveying light;
shroud means for engaging the light conveying means and defining a light passageway; and
first and second valve element means for selectively closing the light passageway, the valve element means being pivotable ~~both up simultaneously and/or both down simultaneously~~ within the

1128-17.AMI

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 6

PATENT
Filed: July 7, 2003

shroud means between an open configuration, wherein the light passageway is substantially not blocked, and a closed configuration, wherein the light passageway is substantially blocked;

actuator means for actuating the valve element means;

a reduction gear train reducing a speed of rotation of the actuator means to an operating speed of a gear train shaft; and

a cam coupling the shaft to the valve element means to transform one hundred eighty degrees (180°) of rotation of the gear train shaft to ninety degrees (90°) of rotation of the valve element means.

23. (original) The skylight of Claim 22, wherein each valve element means turns on a respective axle.

24. (original) The skylight of Claim 22, wherein each valve element means defines a diameter and the shroud means defines a height less than the diameter.

25. (original) The skylight of Claim 22, wherein the shroud means is formed with a lip means for engaging the valve element means in the closed configuration.

26. (canceled).

1128-17.AM1

CASE NO.: 1128.007
Serial No.: 10/615,467
July 17, 2005
Page 7

PATENT
Filed: July 7, 2003

[25]27. (original) The skylight of Claim 24, comprising power supply means for powering the actuator means, the power supply means operating at voltages at least in the range from about one hundred volts (100V) to about two hundred seventy volts (270V).

1128-17.AMI